Claims

3.

RNA vectors.

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	1.	Nucle	eic acid molecule, selected from the group consisting of
5	· ·	a)	nucleic acid molecules encoding the polypeptide disclosed by SEQ ID
,		•	NO: 2;
		b)	nucleic acid molecules containing the sequence depicted by SEQ ID
			NO: 1;
10			
		c)	nucleic acid molecules whose complementary strand hybridizes under
		•	stringent conditions with a nucleic acid molecule of a) or b) and which
			have the biological function of a fluorescent protein;
15		d)	nucleic acid molecules which differ from those mentioned under c)
-			due to the degeneracy of the genetic code;
	:	e)	nucleic acid molecules whose sequences are at least 95% homologous
		•	to SEQ ID NO: 1 and which have the biological function of a
20		·	fluorescent protein; and
		f)	nucleic acid molecules whose sequences are at least 65% homologous
			to SEQ ID NO: 1 and which have the biological function of a
•			fluorescent protein.
25	_		
	2.	Mole	cules according to Claim 1, whose sequence contains a functional
•		prom	oter 5' of the sequence.

Molecules according to Claim 2, which are a part of recombinant DNA or of

- 4. Organisms, which contain a vector described according to Claim 3.
- 5. Oligonucleotides, having more than 10 contiguous nucleotides which are identical or complementary to DNA or RNA sequences according to Claim 1.
 - 6. Peptides, which are encoded by the nucleotide sequence according to Claim 1.
- 7. Method of expressing the CGFP polypeptide according to Claim 6 in bacteria, 10 eukaryotic cells or in *in vitro* expression systems.
 - 8. Method of purifying/isolating a CGFP polypeptide according to Claim 6.
- 9. Peptides, having more than 5 contiguous amino acids which are recognized immunologically by antibodies to the fluorescent protein CGFP.
 - 10. Use of the fluorescent protein CGFP according to Claims 1 to 7 as a marker gene and reporter gene.